Dispatcher Communication with the National Weather Service

Produced by the National Weather Service

Des Moines, IA

January, 2009



Objectives

- What is the National Weather Service?
- Why we call
- What we need to know
- When to call us
- Optimizing communication
- Weather Information



Who are we and what do we do?

- A federal government agency created by Congress, with roots back to the civil war
- Part of NOAA –
 National Oceanic &

 Atmospheric
 Administration
- Mission: Protection of Life and Property



Wait a minute...

How can we protect lives and property?

- We can't stop the storm.
- We can't knock on every door and tell them it's coming (and neither can you).

So what can we do?



- Prepare
- Forecasts, watches, advisories, warnings
- Share information

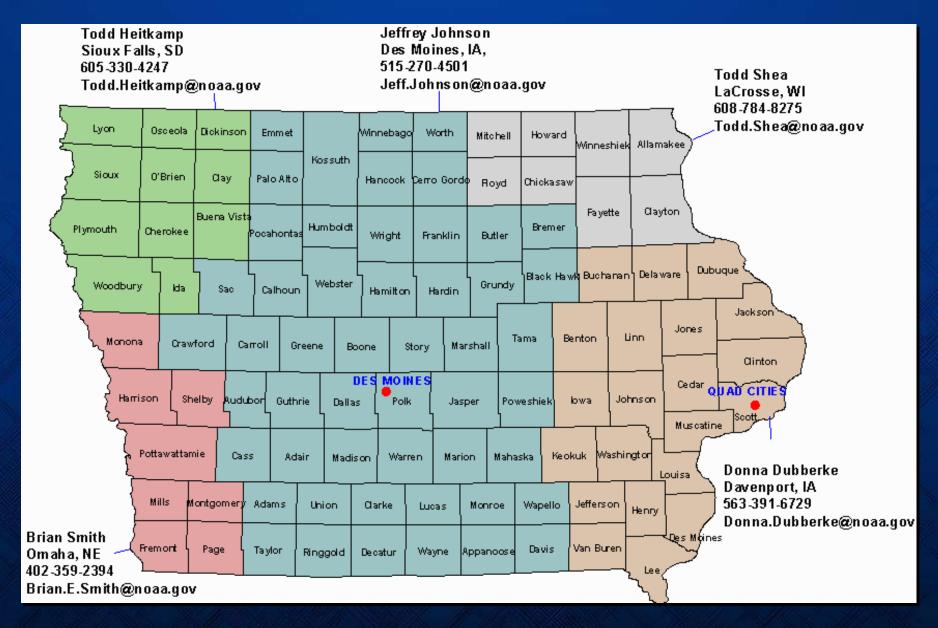
The goal is for people to make informed and educated decisions for themselves.



Courtesy NSSL

How does the National Weather Service, a federal agency serving the entire country, protect *your* neighborhood?





Five National Weather Service office's serve lowa

So what about your local office? Staffing

- Total staff of 23 people
- Variable shift coverage
- Rapidly rotating shifts
- 3 shifts per day



How does this impact communication?

Why do we call?

It's all about information – You have it and we need it!

Remember our mission? The protection of lives and property. We can't do it alone. We need you, the local experts!

We monitor the entire area, but we're not at the scene. Radar only sees so much. People who are there tell us the rest.

Information Sources

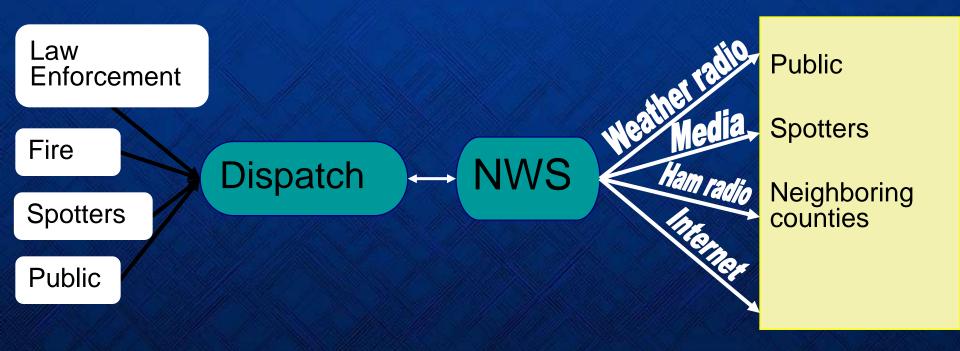
Reports from whom?

- Public
- Law enforcement/Fire
- Spotters

Credibility?

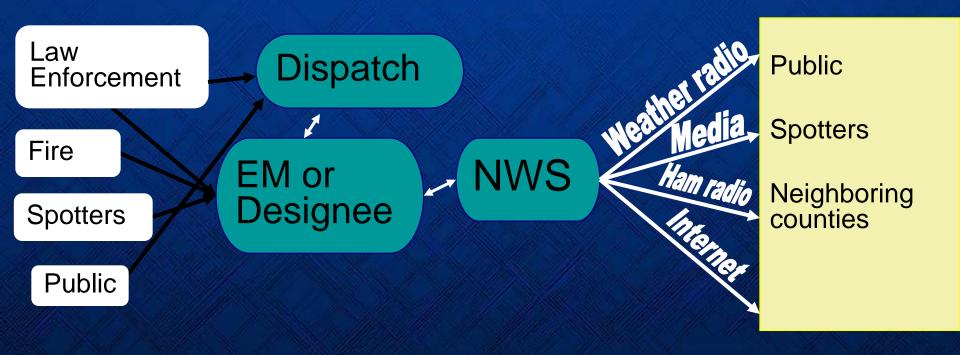


Making the Most of the Information



People can get the information they need to protect themselves without wasting valuable time (theirs and yours) on the phone when seconds count.

Making the Most of the Information



In some counties, an emergency manager or designee will relieve the dispatch office by coordinating spotters and relaying severe weather reports. This is a best practice!

We also provide answers to *your* questions, like:

- Where's it headed?
- What can I expect?
- When will it start?
- When will it be over?



So what's worth passing along?



Courtesy Brenda Brock



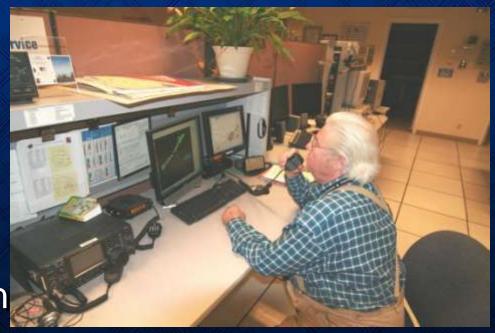
Courtesy NSSL



Courtesy NSSL

We train spotters to report...

- Wall Cloud
- Funnel cloud, Tornado
- Hail all sizes
- Wind above 50 mph
- Damage
- Injuries, Fatalities
- Heavy rainfall
- Flooding
- Heavy snow
- Freezing Precipitation



What's a Wall Cloud?

Is it persistent?
Is it rotating?
Fast? Slow?



Courtesy of Andy Kula

Funnel Clouds and Tornadoes

- Location of spotter and the tornado or funnel cloud
- Movement, trend
- Debris?
- Credible source?
- Location of spotter vs actual location of tornado
- If Longitude / Latitude is known, please provide to NWS

Is it Real?



This was NOT a tornado!
Remember, is the source creditable?

Hail

Not all marbles have been created equal!



Hail sizes in relation to coins, balls Duration, Quantity?
Any damage or injuries?

How about Wind?

• High Winds — Estimate Wind Speed based upon damage!

- < 58 mph Whole trees in motion; twigs and small limbs break off trees
- 58-72 mph Shingles torn off or minor structural damage; breaks off large limbs; pushes over shallow rooted trees
- 73-112 mph Substantial roof and structural damage; windows broken; trailer houses overturned; large trees uprooted
- 113+ Roofs torn off houses; weak buildings and trailer houses destroyed; large trees uprooted





Flooding and Winter Weather

- Rural or urban flooding ...
- Heavy rain or high water ...
- Past water or flood damage
- Heavy snowfall or ice amounts ...



Interested in Learning More?

- National Weather Service Storm Spotter Training
- Late February through April each spring
- Required for StormReady Communities
- Two hour training in the evening
- Check our website at <u>www.weather.gov/desmoines</u> in January for the spotter training schedule





When to Call

Anytime!





It is simply not possible for you to "bug" us.

More calls = High confidence

High confidence = Accurate and Timely Warnings

Remember that we are here to help you.

Will you call us?

We hope so.

- When you have weather-related reports
 - Power outages? road closures? 911 outages?
- Injuries or fatalities
- For county-specific needs (weather, hazmat, other?)
- If you need clarification on a forecast or warning
- To schedule a visit/tour of the National Weather Service
- To let us know how an event went (feedback)

Will we call you?

Sometimes.

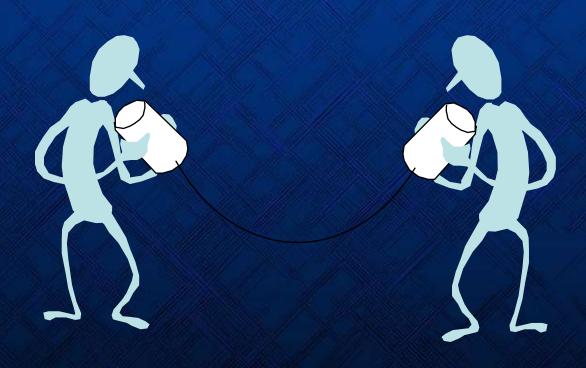
- When we're trying to make a warning decision and need more information
- Post storm follow-up
- Heads-up for dangerous weather if staffing allows
- To confirm a non-weather emergency message request

What happens to the reports at the National Weather Service?

- 1. Received by staff
- 2. Integrated with other information (radar, satellite, other reports)
- 3. Used to "calibrate" radar
- 4. Helps in warning decision
- 5. Relayed via warnings, real-time storm reports
- 6. Web, NOAA Weather Radio and Media relay information

It's all about getting information to people so they can make the right decisions.

How can we optimize communication?



How to Reach Us Legacy Communications

Spotter hotline SKYWARN number: 1-800-SKYWARN (1-800-759-9276) This is the PREFERRED number to use!





How to Reach Us Legacy Communications

Amateur Radio
National Weather Service Call-sign:
KODMX



How to Reach Us Legacy Communications

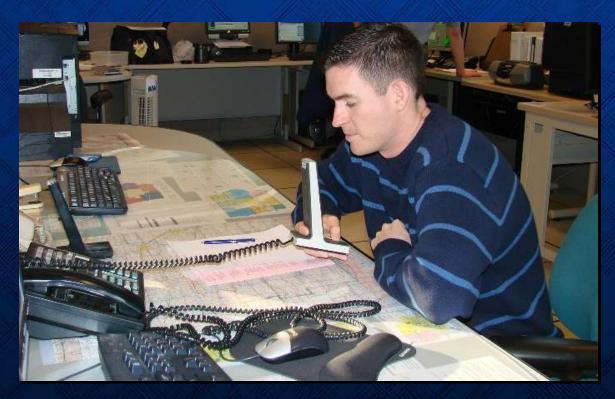
NAWAS / IOWAS



Iowa State Patrol Warning Point areas and **IOWAS** locations Red-ISP Warning Points **Blue-Other IOWAS** locations All NWS offices have a line

How to Reach Us

Legacy Communications MICRN – Metro Incident Command Radio Network



Eight central lowa counties with over 40 agencies on the network

How to Reach Us NWS EM Chat

- Private, secure chat and instant messaging service between NWS, dispatch offices and emergency managers.
- Ability to quickly share and view information from NWS and nearby counties.
- Includes automated weather feed which is the fastest way to receive NWS warnings. Feed includes ability to graphically display radar info and exact warning areas. Great for siren activations.
- For additional information contact Senior Forecaster Brad Small at bradley.small@noaa.gov.

Weather Information

How to Stay Informed

Internet

NOAA All Hazards Weather Radio



NOAA WEATHER RADIO—
THE VOICE OF THE NATIONAL WEATHER SERVICE

NOAA WEATHER RADIO SHOCK OF THE NATIONAL WEATHER RADIO SHOCK OF THE NATIONA

MARK TRAIL CHAMPIONS

AM/FM Radio

Television



Weather Information

How to Stay Informed

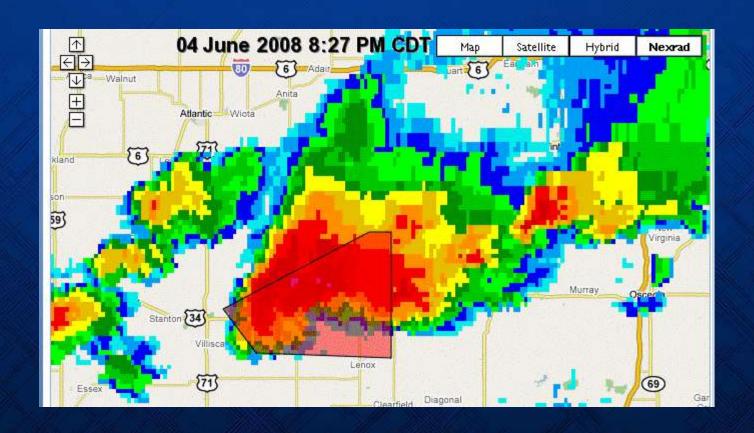
Point and click on your county



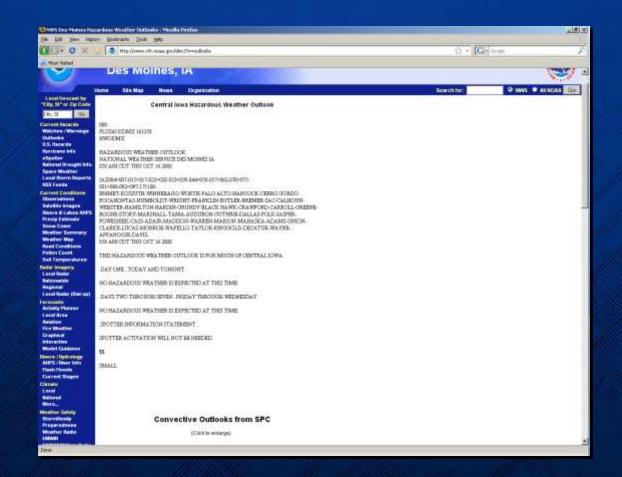
Internet www.weather.gov/desmoines



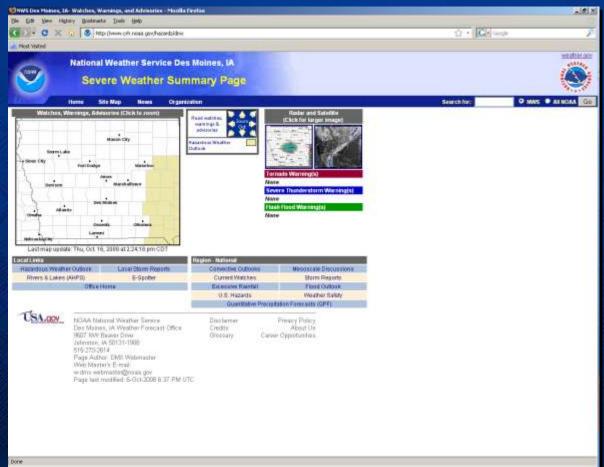
Seven day forecast and current weather for your area



Radar page has tornado, severe thunderstorm and flash flood storm based warnings



Outlook page shows the Hazardous Weather Outlook and the Storm Prediction Center severe weather outlooks



Use the <u>Watches / Warning page</u> during warning situations to keep informed

We hope you now know...

- Mission: protection of life and property
- You're the local experts (ground truth information)
- All kinds of weather and water hazards are important.
- Call ANYTIME
- Many products and services are available

Help us improve...

- What could we do better?
- Recent Problems?
- Let us know...
- Call or E-mail:

Jeff Johnson

National Weather Service

Des Moines, IA

jeff.johnson@noaa.gov

515-270-4501 E726

Thank you!!!



National Weather Service Des Moines, IA